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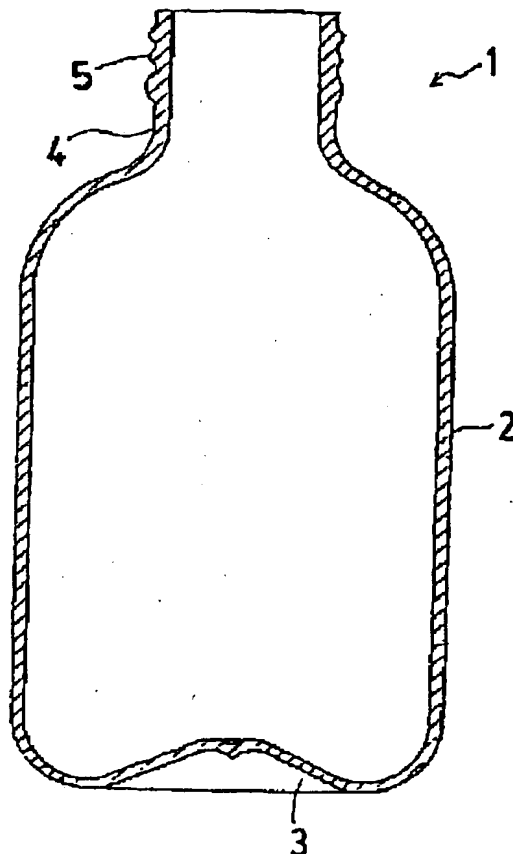
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TITLE : CYCLIC OLEFIN COPOLYMER
CONTAINER EXCELLENT IN
RESISTANCE TO SCRATCH



ABSTRACT : PROBLEM TO BE SOLVED: To obtain excellent wettability and coating applicability on a container surface and decrease the dynamical friction coefficient of the external surface of the container and increase the resistance of the container to damage, by applying a water-soluble lubricant or a surfactant exhibiting a specified solubility index value (Sp value) on the external surface of the container.

SOLUTION: A container 1 is formed by the stretch blow molding of cyclic olefin copolymer and constituted of the body 2, the closed bottom 3, and the neck 4. A screw 5 engaging with a cap is formed in the neck 4. In such a container, a water-soluble lubricant or a surfactant having 9.0 or larger solubility index (Sp value) is applied on the external surface of the container wall. In this way, the kinetic friction coefficient of the external surface of the container is decreased to 0.20 or lower value to increase the resistance to damage of the container. The water-soluble lubricant or the surfactant is applied at the rate of 0.001-0.02mg/cm² in the surface base of the container. Natural aliphatic amine or the like is used for the water-soluble lubricant and sorbitan fatty acid ester or the like is used for the surfactant.

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